

Enabler Release Definition for DiagMon Management Object

Candidate Version 1.0 – 14 Apr 2009

Open Mobile Alliance OMA-ERELD-DiagMon-V1_0-20090414-C

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Contents

1.	SO	COPE	4
2.	R	EFERENCES	5
	2.1	NORMATIVE REFERENCES	5
	2.2	Informative References	
3.	T	ERMINOLOGY AND CONVENTIONS	6
	3.1	CONVENTIONS	6
	3.2	DEFINITIONS	6
	3.3	ABBREVIATIONS	6
4.	R	ELEASE VERSION OVERVIEW	7
	4.1	VERSION 1.0 FUNCTIONALITY	7
5.	D	OCUMENT LISTING FOR DIAGMON	8
6.	O	MNA CONSIDERATIONS	9
7.	C	ONFORMANCE REQUIREMENTS NOTATION DETAILS	10
8.	El	RDEF FOR DIAGMON - CLIENT REQUIREMENTS	11
9.	E	RDEF FOR DIAGMON - SERVER REQUIREMENTS	12
Al	PPE	NDIX A. CHANGE HISTORY (INFORMATIVE)	13
	A.1	APPROVED VERSION HISTORY	13
	A.2	DRAFT/CANDIDATE VERSION 1.0 HISTORY	13
T	ab	oles	
Тa	ble 1	1: Listing of Documents in DiagMon Enabler	8
Ta	ble 2	2: ERDEF for DiagMon Client-side Requirements	11
Ts	hle :	3: ERDEF for DiagMon Server-side Requirements	12

1. Scope

The scope of this document is limited to the Enabler Release Definition of DiagMon according to OMA Release process and the Enabler Release specification baseline listed in section 5.

2. References

2.1 Normative References

[**DiagMon-AD**] "DiagMon Architecture", Open Mobile Alliance™, OMA-AD-DiagMon-V1_0,

URL: http://www.openmobilealliance.org/

[DiagMon-DDF] "DiagMon DDF", Open Mobile AllianceTM, OMA-SUP-MO_DiagMon-V1_0,

URL: http://www.openmobilealliance.org/

[DiagMon-RD] "DiagMon Requirements", Open Mobile Alliance™, OMA-RD-DiagMon-V1_0,

URL: http://www.openmobilealliance.org/

[DiagMon-TS] "DiagMon Technical Specification", Open Mobile Alliance™, OMA-TS-DiagMon-V1_0,

URL: http://www.openmobilealliance.org/

[DiagMonTrapMO-TS] "DiagMonTrap MO Technical Specification", Open Mobile AllianceTM, OMA-TS-DiagMonTrapMO-

V1_0,

URL: http://www.openmobilealliance.org/

[DiagMonTrapMO-

 $\hbox{``DiagMonTrapMO-DDF'', Open Mobile Alliance}^{TM}, OMA-SUP-MO_DiagMonTrapMO-V1_0,$

DDF] URL: http://www.openmobilealliance.org/

[RFC2119] "Key words for use in RFCs to Indicate Requirement Levels", S. Bradner, March 1997,

URL: http://www.ietf.org/rfc/rfc2119.txt

[SCRRULES] "SCR Rules and Procedures", Open Mobile AllianceTM, OMA-ORG-SCR_Rules_and_Procedures,

URL: http://www.openmobilealliance.org/

2.2 Informative References

[OMADICT] "Dictionary for OMA Specifications", Version 2.7, Open Mobile AllianceTM,

OMA-ORG-Dictionary-V2_7,

URL: http://www.openmobilealliance.org/

3. Terminology and Conventions

3.1 Conventions

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in [RFC2119].

All sections and appendixes, except "Scope", "Release Version Overview" and "Conformance Requirements Notation Details", are normative, unless they are explicitly indicated to be informative.

The formal notation convention used in sections 8 and 9 to formally express the structure and internal dependencies between specifications in the Enabler Release specification baseline is detailed in [SCRRULES].

3.2 Definitions

Enabler Release Collection of specifications that combined together form an enabler for a service area, e.g. a download

enabler, a browsing enabler, a messaging enabler, a location enabler, etc. The specifications that are

forming an enabler should combined fulfill a number of related market requirements.

Minimum Functionality

Description

Description of the guaranteed features and functionality that will be enabled by implementing the

minimum mandatory part of the Enabler Release.

Software Component A Diagnostics resource utilized by the mobile Device software platform

3.3 Abbreviations

DiagMonDiagnostics Management ObjectERDEFEnabler Requirement DefinitionERELDEnabler Release DefinitionOMAOpen Mobile Alliance

4. Release Version Overview

The Diagnostics Management Object enables remote Diagnostics management within Device. This can be used for example to update antivirus software or browser plug-in etc.

Management operations defined for the purpose of Software Component management on the Device support delivery, download, installation, update, removal, activation & de-activation. In addition, retrieval of inventory of Software Components on the Device is also supported.

4.1 Version 1.0 Functionality

The Diagnostics Management Object (DiagMon) V1.0 Enabler [DiagMon-TS] supports the following functionality.

- Diagnostics Policies Management: Support for specification and enforcement of policies related to the management of diagnostics features and data.
- 2) Fault Reporting: Enable the device to report faults to the network as the trouble is detected at the device.
- 3) **Performance Monitoring:** Enable the device to measure, collect and report key performance indicators (KPIs) data as seen by the device such as on a periodic basis.
- 4) Device Interrogation: Enable the network to query the device for additional diagnostics data in response to a fault
- 5) **Remote Diagnostics Procedure Invocation:** Enable management authorities to invoke specific diagnostics procedures embedded in the device to perform routine maintenance and diagnostics.
- 6) Remote Device Repairing: Enable management authorities to invoke specific repairing procedures based on the results of diagnosis procedures.

5. Document Listing for DiagMon

This section is normative.

Doc Ref	Permanent Document Reference	Description
Requirement Docu		
[DiagMon_RD] OMA-RD-DiagMon-V1_0-20070918-C		Requirement Document for DiagMon Enabler
Architecture Docum	nent	
[DiagMon_AD]	OMA-AD-DiagMon-V1_0-20090414-C	Architecture Document for DiagMon Enabler
Technical Specifica	tions	
[DiagMon_TS]	OMA-TS-DiagMon-V1_0-20090414-C	Technical Specification for DiagMon Enabler
[DiagMonTrapMO TS]	OMA-TS-DiagMonTrapMO-V1_0-20090414-C	Technical Specification for the DiagMon Trap MO Enabler
Supporting Files		
[DiagMon_DDF]	OMA-SUP-MO_DiagMon-V1_0-20090414-C	DDF Document for DiagMon Framework
		Working file in DM_Managed Object directory:
		file: oma-sup-mo_diagmon-v1.0.ddf
		path: http://www.openmobilealliance.org/tech/omna/
[DiagMonTrapMO	OMA-SUP-MO_DiagMonTrapMO-V1_0-20090414-	DDF Document for DiagMon Trap MO
DDF]	C	Working file in DM_Managed Object directory:
		file: oma-sup-mo_diagmontrapmo-v1.0.ddf
		path: http://www.openmobilealliance.org/tech/omna/

Table 1: Listing of Documents in DiagMon Enabler

6. OMNA Considerations

The OMNA portal needs to add and maintain the following MO into its registry:

			MO DDF	MO Spec
urn:oma:mo:oma-	Diagnostics and Monitoring MO		OMA SUB MO DiagMan VI O	OMA-TS-DiagMon-V1_0-20090303-D

The OMNA portal needs to add and maintain the following alert type into Alert Type registry:

	Alert Root	Alert Code	Alert Type Description	Owner	Version	Spec	MO Identifier (Optional)
	urn:oma:at:diagmon:1.0	^	Used to claim that the alert message conveys the result of DiagMon operation			OMA-TS-DiagMon-V1_0- 20090303-D	urn:oma:mo:oma-diagmon:1.0
		^ 	Used to claim that the alert message conveys the trap notification	DM WG		OMA-TS-DiagMonTrapMO- V1_0-20090303-D	urn:oma:mo:oma-diagmontrap:1.0

7. Conformance Requirements Notation Details

This section is informative

The tables in following chapters use the following notation:

Item: Entry in this column MUST be a valid ScrItem according to [SCRRULES].

Feature/Application: Entry in this column SHOULD be a short descriptive label to the **Item** in question.

Requirement: Expression in the column MUST be a valid TerminalExpression according to [SCRRULES] and it

MUST accurately reflect the architectural requirement of the **Item** in question.

8. ERDEF for DiagMon - Client Requirements

This section is normative.

Item	Feature / Application	Requirement
OMA-ERDEF-DiagMon-C-001-< <m o="">></m>	DiagMon Client	

Table 2: ERDEF for DiagMon Client-side Requirements

9. ERDEF for DiagMon - Server Requirements

This section is normative.

Item	Feature / Application	Requirement
OMA-ERDEF-DiagMon-S-001-< <m o="">></m>	DiagMon Server	

Table 3: ERDEF for DiagMon Server-side Requirements

Appendix A. Change History

(Informative)

A.1 Approved Version History

	Reference Date		Description
r	n/a	n/a	No prior version

A.2 Draft/Candidate Version 1.0 History

Document Identifier	Date	Sections	Description
Draft Versions	21 Oct 2008	All	Initial baseline draft
OMA-ERELD-DiagMon-V1_0	06 Jan 2009	All	Final cleanup prior to Consistency Review
			Incorporated agreed CR:
			OMA-DM-Diag-2008-0072R01
	01 Feb 2009	6	Editorial changes
	04 Mar 2009	6,	Incorporated agreed CRs:
			OMA-DM-Diag-2009-0017R01
			Editorial changes:
			Changed header & footer – document name
			2. Updated document identifiers in this table (A.2)
			Set document language to English
		All	4. Fixed spelling errors
			5. Set all fonts to Times New Roman
	18 Mar 2009	5	Document List updated
Candidate Versions	14 Apr 2009	n/a	Status changed by TP
OMA-ERELD-DiagMon-V1_0			OMA-TP-2009-0138-
_			INP_DiagMon_V1_0_ERP_for_Candidate_Approval